

Safety Data Sheet

According to Regulation (EC) 1907/2006



2839 Barium Perchlorate anhydrous

Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Barium Perchlorate anhydrous

Synonym:

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Ox. Sol. 1

Acute Tox. 4

Acute Tox. 4

Hazard Pictograms



Signal word

Danger

Hazard statements

H271 May cause fire or explosion; strong oxidiser.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

Xn Harmful R20/22

O Oxidizing R9

For the full text of the R-phrases mentioned in this section, see section 16.

Component Composition/Information

Name: Barium Perchlorate anhydrous

Formula: Ba(ClO₄)₂ M.= 336,24 CAS [13465-95-7]

EC number (EINECS): 236-710-4

EC index number: 017-007-00-X

First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). Induce vomiting. Seek immediate medical assistance. In the event of suffocation, proceed to provide artificial respiration.

Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Incombustible. Encourages fire to break out. Keep away from combustible substances. In the event of fire, toxic fumes may form.

5.4 Protective equipment:

Suitable clothing and footwear.

Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the dust.

6.2 Precautions for care of the environment:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere. Store separately or in an enclosure exclusively set aside for substances which are likely to ignite.

Staff exposure/protection controls

8.1 Technical protective measures:

No special indications.

8.2 Exposure limit control:

TLV-TWA(Ba): 0,5 mg/m³

VLA-ED(Ba): 0,5 mg/m³

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Odourless.

pH: 5,6

Melting point/freezing point: 505 °C

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: (20/4) 2,74

Solubility: 1.985 g/l in water^{25 °C}

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

Stability and reactivity

10.1 Conditions which should be avoided:

The product is chemically stable under standar ambient conditions (room temperature).

10.2 Matter which should be avoided:

Concentrated sulfuric acid. (There is a risk of explosion). Reducing agents. Alcohols. Ammoniacal compounds Metals (powder). Flammable substances.

10.3 Hazardous decomposition products:

No specific data.

10.4 Complementary information:

No specific data.

Toxicological information

- **Acute toxicity:**

: Data not available.

- **Dangerous effects for health:**

If inhaled: Irritations to the respiratory tracts. Upon contact with the skin: Irritations to the skin and mucosae. If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. If it is absorbed in large quantities: Can cause nausea vomiting dizziness saliva flow intestinal disorders diarrhoea headaches stomach pains Systemic effects: arrhythmia cardiovascular disorders alterations of the circulation collapse muscular disorders

Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

Algae (*Sc. quadricauda*) 34 mg/l

Classification:

Extr. toxic

Crustaceans (*Daphnia magna*) 29 mg/l

Classification:

Extr. toxic

Fish (*Salmo gairdneri*) (Ba) 158 mg/l

Classification: Highly toxic

Fish (*Leuciscus Idus*) (Ba) 870 mg/l

Classification: Highly toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

12.1.3. - Observations:

The ecotoxicity is due to the ion Ba.

12.2 Persistence and Degradability :

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

Dangerous for drinking water.

Do not allow it to enter soils or water channels.

Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Information concerning transport

Overland (ADR):

Technical name: BARIUM PERCHLORATE, SOLID

UN 1447 Class: 5.1 6.1 Packaging group: II (E)

By sea (IMDG):

Technical name: BARIUM PERCHLORATE, SOLID

UN 1447 Class: 5.1 6.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Barium perchlorate, solid

UN 1447 Class: 5.1 6.1 Packaging group: II

Packaging instructions: CAO 562 PAX 558

Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other information

Other precautionary statements

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P283 Wear fire/flame resistant/retardant clothing.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P306+P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P370+P378 In case of fire: Use for extinction.

P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Labelling (65/548/CEE or 1999/45/CE)

R-phrases(s):	R20/22 Harmful by inhalation and if swallowed.
	R9 Explosive when mixed with combustible material.
S-phrases(s):	S27 Take off immediately all contaminated clothing.

Review number and date: 4 15.09.2011

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.